



SERVICE MANUAL

GARLAND GAS & ELECTRIC
CLAMSHELL GRILLS
WITH PRODUCT RECOGNITION

MODELS:

MWE3W

MWE3S

MWG3W



WARNING:

IMPROPER INSTALLATION, ADJUSTMENT, ALTERATION, SERVICE OR MAINTENANCE CAN CAUSE PROPERTY DAMAGE, INJURY OR DEATH. READ THE INSTALLATION, OPERATING AND MAINTENANCE INSTRUCTIONS THOROUGHLY BEFORE INSTALLING OR SERVICING THIS EQUIPMENT.

PLEASE READ ALL SECTIONS OF THIS MANUAL AND RETAIN FOR FUTURE REFERENCE.

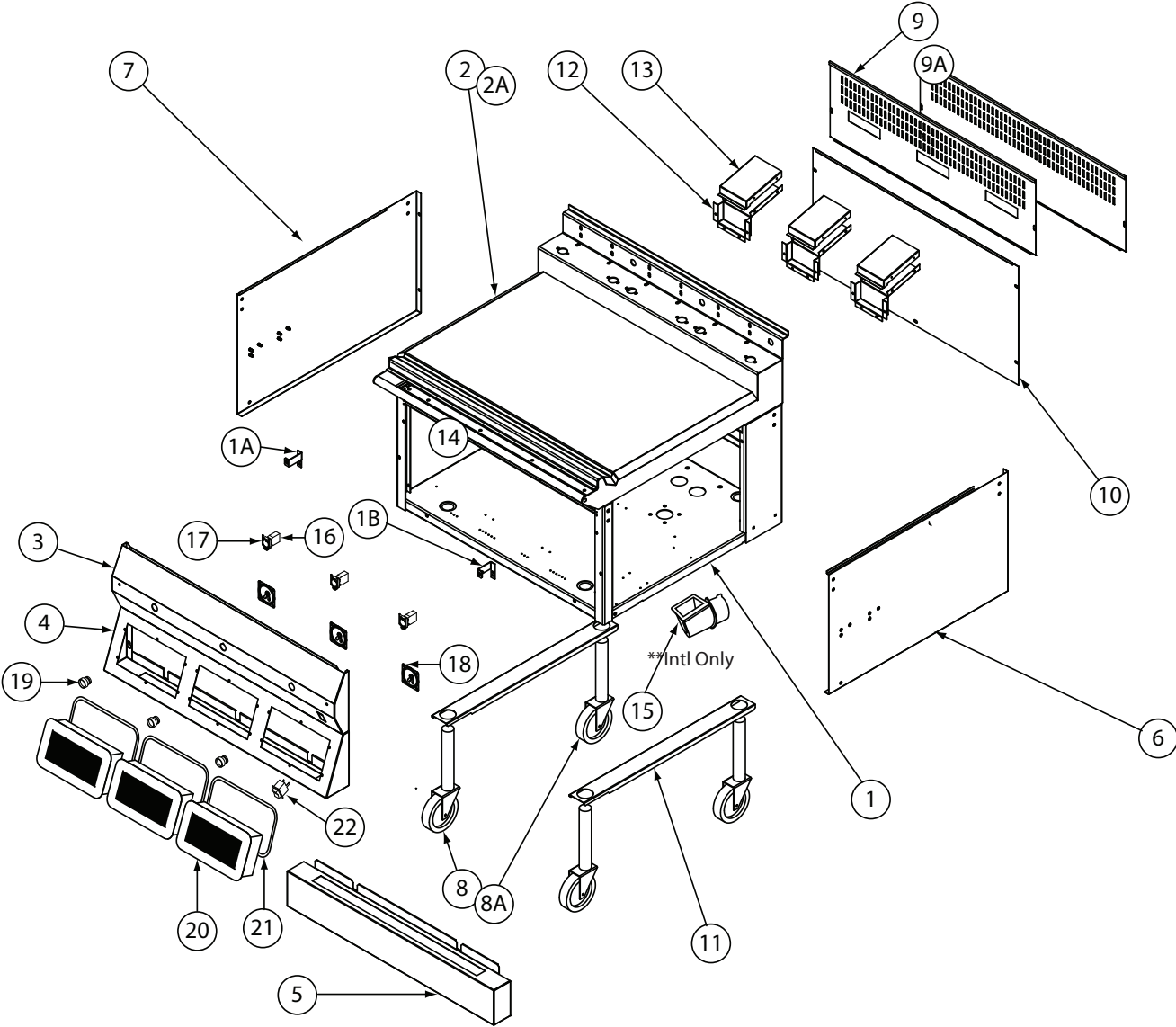
THIS EQUIPMENT MUST BE INSTALLED AND COMMISSIONED BY A PROFESSIONAL,
FACTORY-TRAINED TECHNICIAN.

THIS EQUIPMENT MUST BE OPERATED UNDER AN APPROVED EXHAUST HOOD SYSTEM ONLY.

NOTE: This manual pertains to all grill models listed above. The reader/operator must interpret its contents to applicable needs. If you have questions about any instructional materials pertaining to Garland grills, please contact our Customer Service Department at one of the phone numbers below.

MANUFACTURED EXCLUSIVELY FOR McDonald's BY
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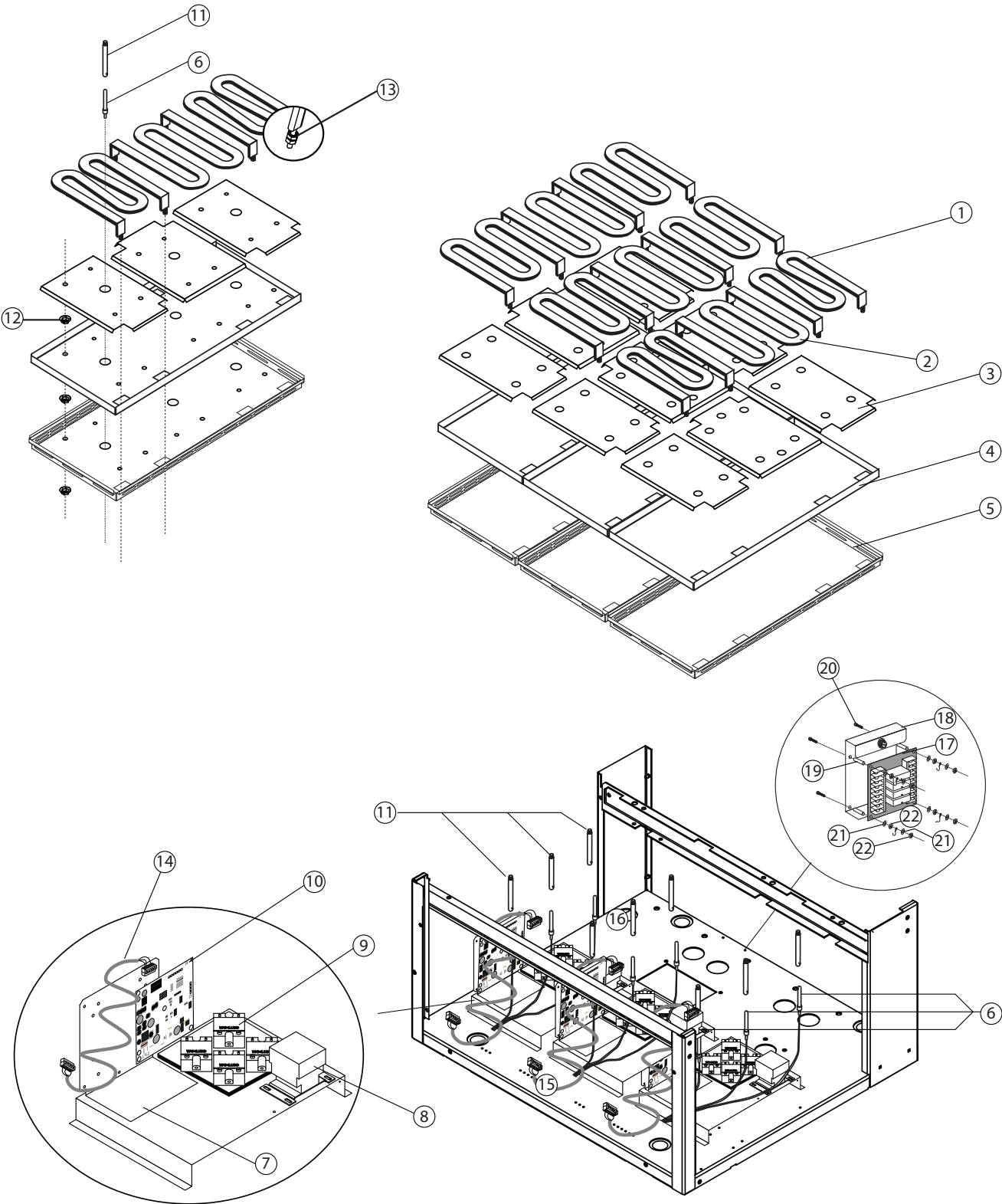
PARTS ID: GRILL EXTERIOR; ALL MODELS



PARTS ID: GRILL EXTERIOR; ALL MODELS

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	4522650	BODY BASE, WA	1
1A	4517928	FRONT PANEL BRACKET, RT	1
1B	4517929	FRONT PANEL BRACKET, LT	1
2	4522707	PLATE WA, GAS	1
2A	4522653	PLATE WA, ELECTRIC	1
3	4522560	FRONT PANEL, UPPER (PRC)	1
4	4520760	FRONT PANEL, MIDDLE (PRC)	1
5	4517747	FRONT PANEL, LOWER	1
6	4522552	BODY SIDE, RT	1
7	4522553	BODY SIDE, LT	1
8	4517563	5" FRONT SWIVEL CASTER W/BRAKE	2
8A	1792003	5" REAR SWIVEL CASTER	2
9	4525272	SPLIT BACK, TOP (GAS)	1
9A	4525273	SPLIT BACK, TOP (ELECTRIC)	1
10	4521436	SPLIT BACK, BOTTOM	1
11	4523352	LEG BRACE LOCKING BRACKET	2
12	4525261	FLUE BOTTOM, GAS	3
13	4525262	FLUE TOP, GAS	3
14	1808302	TOWEL BAR	1
15	1866501	MENNEKES 7-WAY SOCKET	1
16	1859606	CONTACT BLOCK	3
17	1859607	MOUNTING LATCH	3
18	4523482	SPEAKER, 4 WATTS SMT	3
19	1859605	CANCEL PUSH BUTTON, GREEN	3
20	4522735	MAIN CONTROLLER	3
21	1872601	GORE-TEX SEAL, .125"X.020"X2.85'	3
NS	CK4524159	CONTROLLER+SEAL; (1) 4522735 + (1) 18726202	
22	1872404	POWER SWITCH, MAIN 120-240V	1

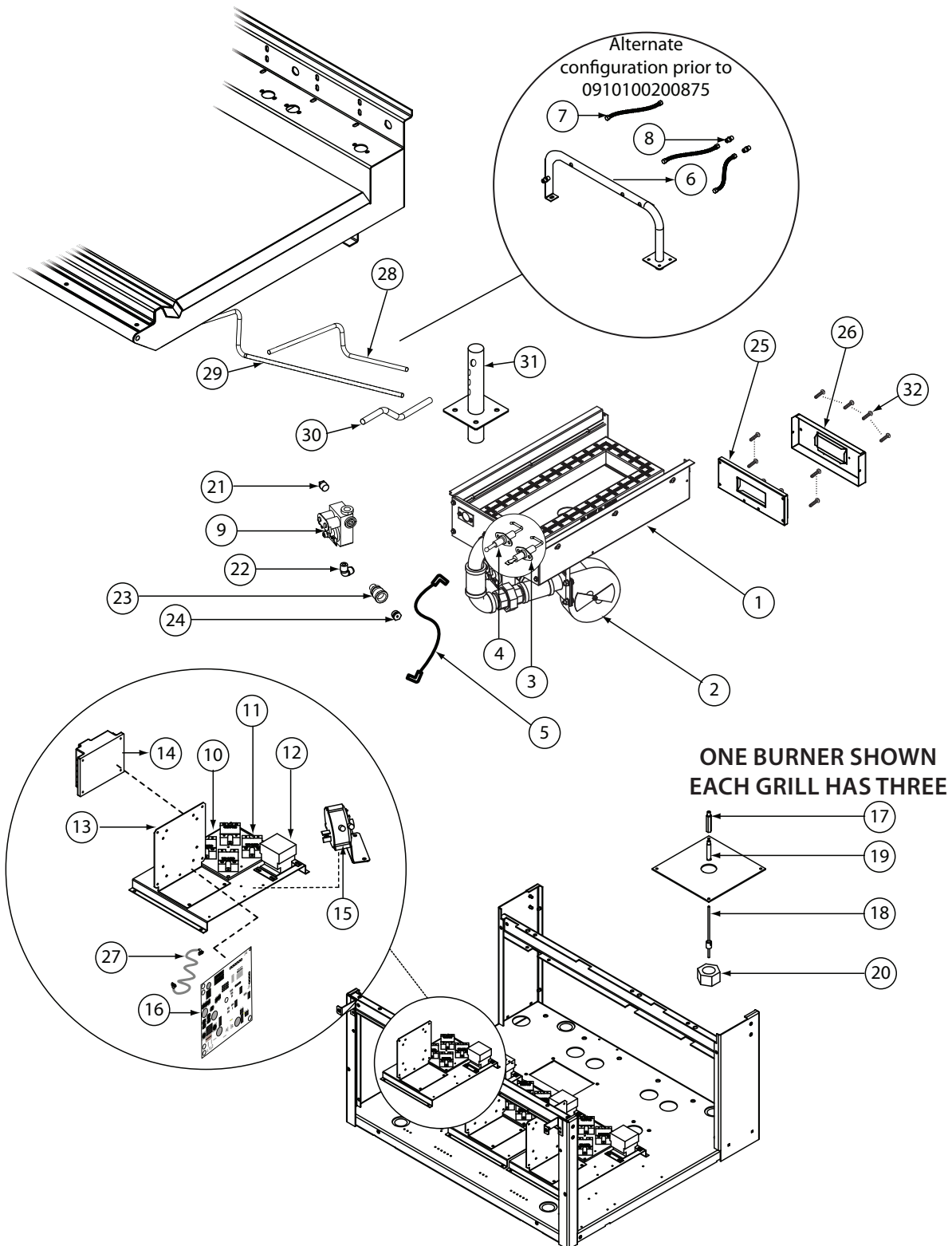
PARTS ID: GRILL ELEMENT; ELECTRIC MODELS



PARTS ID: GRILL ELEMENT; ELECTRIC MODELS

ITEM NO.	PART NUMBER	DESCRIPTION	QUANTITY	
			GRILL	ZONE.
1	4521310	ELEMENT, OUTER, 208V 1300W	6	3
	4521720	ELEMENT, OUTER, 220V 1300W	6	3
	4521312	ELEMENT, OUTER, 230V 1300W	6	3
	4521721	ELEMENT, OUTER, 240V 1300W	6	3
2	4521309	ELEMENT, INNER 208V 1700W	3	1
	4521718	ELEMENT, INNER 220V 1700W	3	1
	4521311	ELEMENT, INNER 230V 1700W	3	1
	4521719	ELEMENT, INNER 240V 1700W	3	1
3	4520682	ELEMENT CLAMP, OUTER	6	3
3A	4520681	ELEMENT CLAMP, INNER	3	1
4	4524029	ELEMENT PAN, UPPER	1	*
5	4524030	ELEMENT PAN, LOWER	1	*
6	4521318	THERMOCOUPLE; GRILL PLATE ELECTIC	9	3
7	4521389	MOTOR SPEED CONTROL BRACKET	3	1
8	1637001	CONTACTOR 120V	3	1
8	1637002	CONTACTOR 240V	3	1
9	4526988	SOLID STATE RELAY	15	5
10	4521682	MOTOR SPEED CONTROL	3	1
11	1859404	BAYONNET ADAPTER	9	3
12	4518173	PAL NUT 5/16-18		
13	4518666	NUT TWIN WHIZ 10-32 LOCK		
14	4521896	COMM CABLE	3	1
15	4522188	TERMINAL BLOCK (CONTROL COMPONENTS)	1	1
16	4517674	TERMINAL BLOCK (3PHASE CONNECTION, ELEC GRILL)	1	1
16A	4525397	TERMINAL BLOCK (3PHASE CONNECTION, GAS GRILL)	1	1
17	4522117	2-SPD FAN RELAY BOARD W SPACERS	1	1
18	4522120	2-SPD FAN RELAY MOUNTING BRACKET	1	1
20		SCREW	4	0
21	8000202	WASHER #8 REG L/W HXFRE MECH	4	0
22	8001209	6-32 FIN HX MACH NUT ZC	4	0

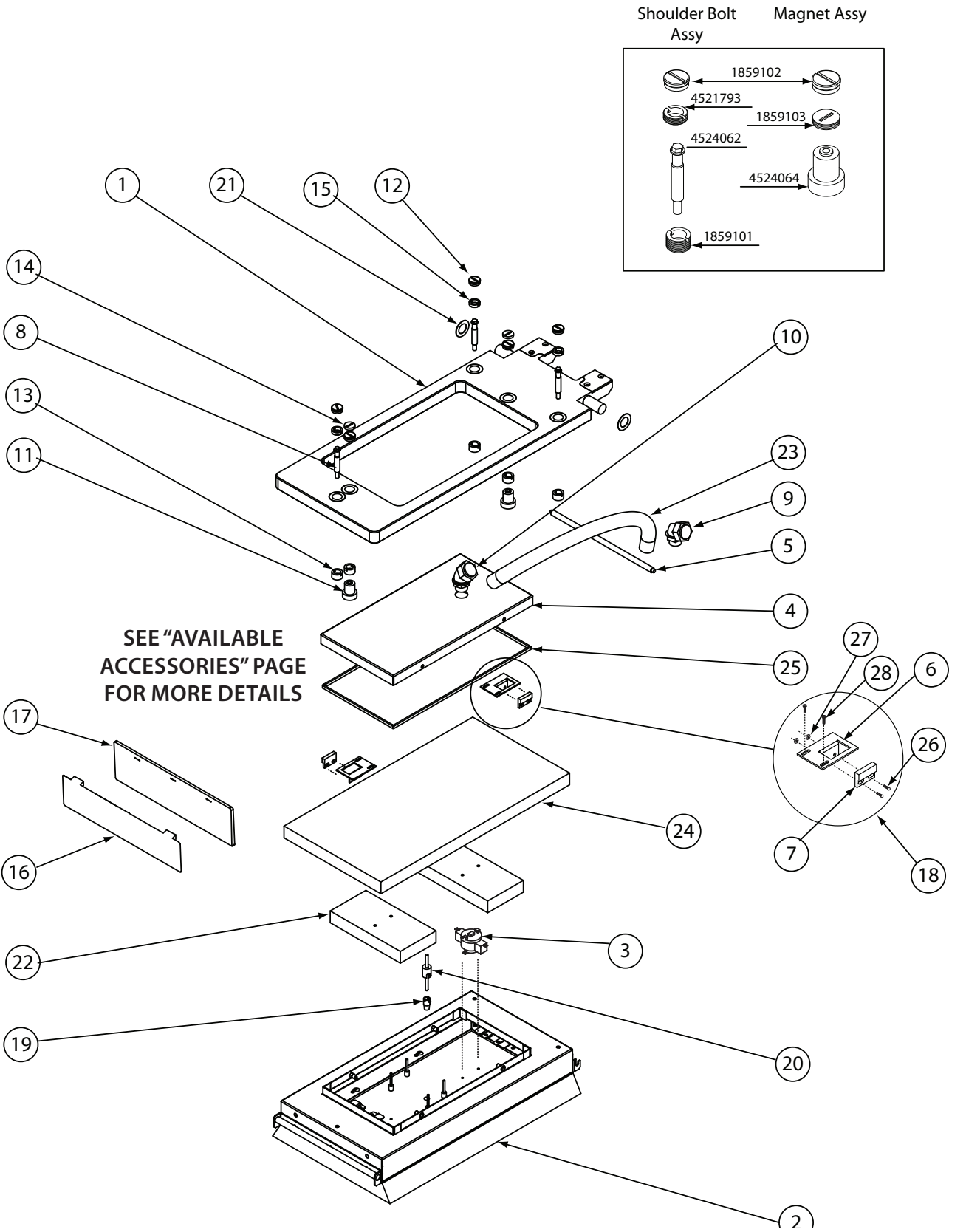
PARTS ID: GRILL BURNER; GAS MODELS



PARTS ID: GRILL BURNER; GAS MODELS

ITEM NO.	PART NUMBER	DESCRIPTION	QUANTITY.	
			GRILL	PLATEN
1	4523394	BURNER ASSY NATURAL	3	1
1	4523395	BURNER ASSY LP	3	1
1	4523396	BURNER ASSY CE NAT	3	1
1	4523397	BURNER ASSY CE LP	3	1
2	4525845	BLOWER MOTOR 120VAC	3	1
2	4526139	BLOWER MOTOR 230VAC	3	1
3	4524066	FLAME SENSOR	3	1
4	4525537	IGNITER	3	1
5	1864803	IGNITION CABLE	3	1
6	4523467	WELDMENT INLET MANIFOLD	1	
7	4527828	FLEXIBLE TUBING 3/8"X10" CORR. SS	3	1
8	4524197	FITTING, STRAIGHT, MALE 3/8" NPT X 5/8"-18, BRASS	3	1
9	1864701	GAS VALVE (NAT/LP) 120VAC	3	1
9	4525846	GAS VALVE CE (NAT/LP) 230VAC	3	1
10	4516116	HEAT SINK	3	1
11	4516988	SOLID STATE RELAY W LED LIGHT	6	2
12	1637001	CONTACTOR 120V COIL	3	1
12	1637002	CONTACTOR 240V COIL	3	1
13	4521389	MOTOR SPEED CONTROL BRACKET	3	1
14	1864901	IGNITION MODULE 120V	3	1
14	4522571	IGNITION MODULE PACTROL 230V CE	3	1
15	4517392	AIR PRESSURE SWITCH	3	1
16	4521682	MOTOR SPEED CONTROL	3	1
17	3084200	BAYONET ADAPTOR EXTENSION	3	1
18	4521710	THERMOCOUPLE, GRILL PLATE (GAS GRILLS)	3	1
19	1859404	BAYONET ADAPTOR (GRILL PLATE)	3	1
20	1853301	LEG NUT, 1-1/2 X 12	3	1
21	NO P/N	PLUG 1/4" NPT	3	1
22	4524198	FITTING, 90DEG, ELBOW - 3/8" NPT X 5/18"-18, BRASS	3	1
23	NO P/N	ORIFICE MOUNTING TUBE	3	1
24	NO P/N	ORIFICE	3	1
25	4517396	FLUE BOX, INNER	3	1
26	4517397	FLUE BOX, OUTER	3	1
27	4521896	COMM CABLE	3	1
28	4521678	GAS TUBE CTR	1	1
29	4521679	GAS TUBE LT	1	1
30	4521677	GAS TUBE RT	1	1
31	4517394	GAS INLET MANIFOLD	1	*
32	8002106	SMSCR-TH PHIL-A #10 X1/2 STL SP		

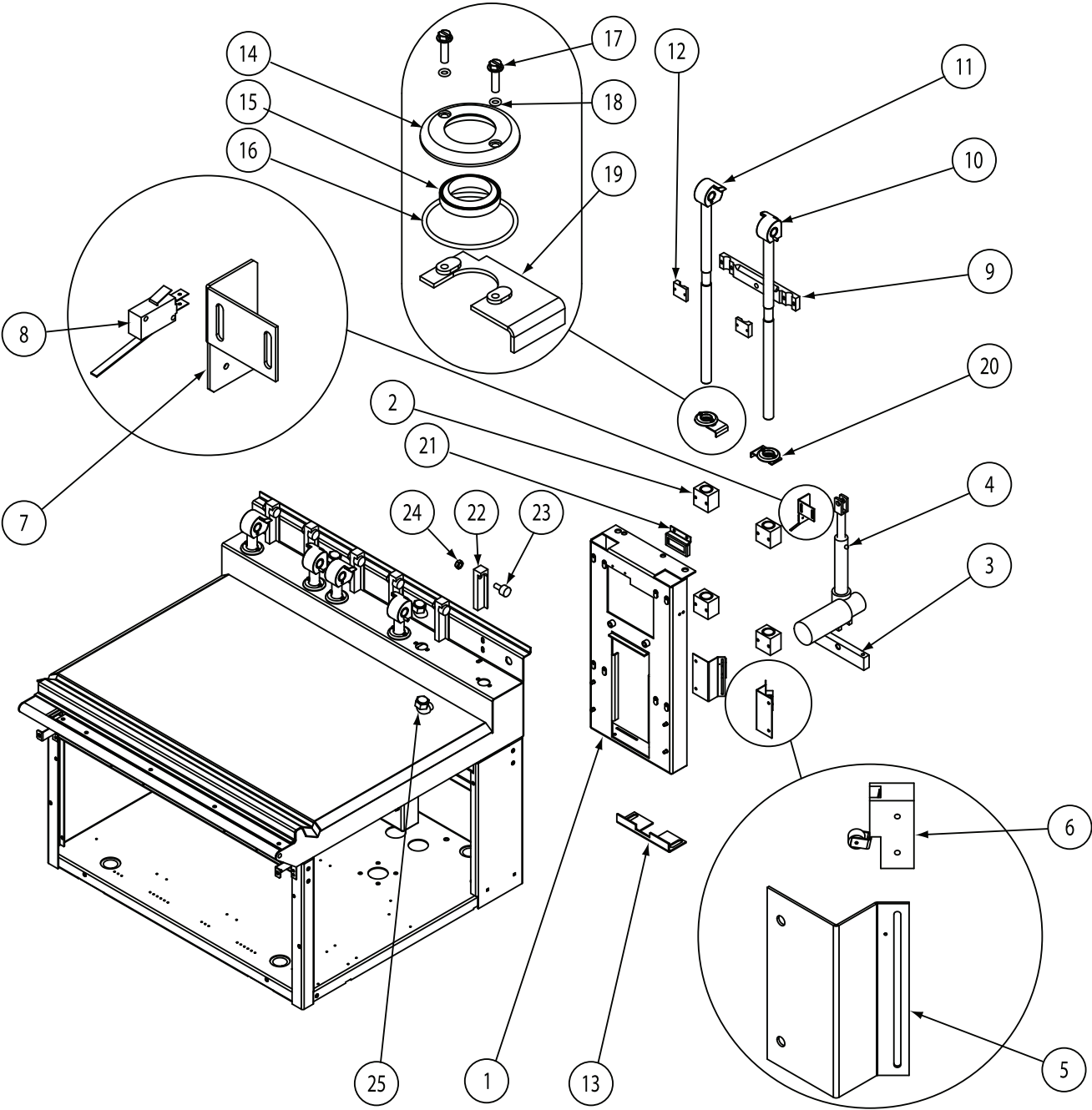
PARTS ID: UPPER PLATEN ASSEMBLY; ALL MODELS



PARTS ID: UPPER PLATEN ASSEMBLY; ALL MODELS

ITEM NO.	PART NUMBER	DESCRIPTION	QUANTITY.	
			GRILL	PLATEN
1	4521293	PLATEN ARM ASSEMBLY	3	1
2	CK4525497	PLATEN ASSEMBLY; 208V	3	1
	CK4525498	PLATEN ASSEMBLY; 220V	3	1
	CK4525499	PLATEN ASSEMBLY; 230V	3	1
	CK4525500	PLATEN ASSEMBLY; 240V	3	1
3	1781301	HIGH LIMIT (AUTO RESET)	3	1
3	1866601	HIGH LIMIT (MANUAL RESET) *EXPORT ONLY	3	1
4	4520806	PLATEN LID	3	1
5	4521355	TEFLON BAR, REAR	3	1
6	4521698	SENSOR MOUNT, REED SWITCH BRACKET	6	2
7	4521314	SENSOR, PRODUCT RECOGNITION, REED SWITCH	6	2
8	4524062	SHOULDER BOLT, PLATEN	6	3
9	4521709	1/2IN X 90 DEG LIQUID TIGHT FITTING	3	1
10	1854504	1/2IN X 45 DEG. LIQUID TIGHT FITTING	3	1
11	4524064	MAGNET ASSY	6	2
12	1859102	PLATEN ADJUSTER CAP	15	5
13	1859101	PLATEN ADJUSTER NUT	15	5
14	1859103	PLATEN ADJUSTER LOCK NUT	6	2
15	4521793	LOCK NUT	9	3
16	4525214	PLATE, VAPOR SHIELD	3	1
17	4523425	SILICONE, VAPOR SHIELD	3	1
18	4524070	REED SWITCH ASSEMBLY	6	2
19	1859402	PLATEN BAYONET ADAPTOR	3	1
20	4521711	THERMOCOUPLE	3	1
21	1855903	TEFLON WASHER CARRIAGE SHAFT	6	2
22	4522054	PLATEN WEIGHT	6	2
23	1854403	ATX-11 CONDUIT BLACK	3	1
24	0010000FG	1IN FIBERGLASS INSULATION #SGR-6	3	1
25	000500GIS	.500 GORE-TEX SEAL STRIP	3	1
26	4526536	HH MS 4-40X1/2" 18-8 SS		
27	8001506	NUT W/L WASHER 4-40 SS		
28	4522260	ALLEN HEAD MOUNTING SCREW - 6-32 X 3/8"		

PARTS ID: PLATEN LIFTING MECHANISM; ALL MODELS

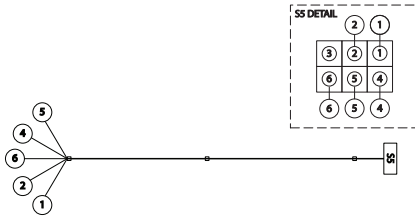


PARTS ID: PLATEN LIFTING MECHANISM; ALL MODELS

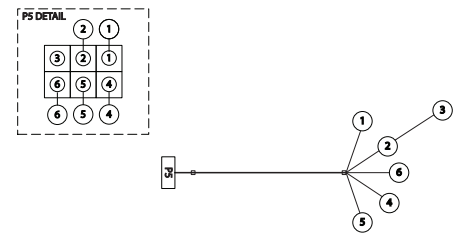
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	4523868	ACTUATOR FRAME, PAINTED	3
2	1858199	PILOW BLOCK ASSEMBLY	12
3	1858001	ACTUATOR CLEVIS MOUNT	3
4	4525541	LINEAR ACTUATOR	3
5	1857601	LIMIT SWITCH BRACKET	6
6	1855601	STOP LIMIT SWITCH,	6
7	4521654	SWITCH BRACKET, RUNAWAY	3
8	1855604	LIMIT SWITCH (KILL)	3
9	4522318	CROSS MEMBER, PAINTED	3
10	4523364	ARM CARRIAGE, SHAFT ASSEMBLY (RT)	3
11	4522540	ARM CARRIAGE, SHAFT ASSEMBLY (LT)	3
12	4518788	ACTUATOR CROSS MEMBER CLAMP, PAINTED	6
13	4523856	ACTUATOR FRAME BRACE, PAINTED	3
14	1857703	SEAL CAP	6
15	4526311	SHAFT SEAL WIPER, BLACK SOLID	6
15	4526312	SHAFT SEAL WIPER, BLACK W/ BLUE DOT SPLIT	-
16	1874201	SEAL CAP O-RING	6
17	8003437	SCREW, HXSLT #8-32 X 1	12
18	1874301	#8-32 O-RING	12
19	1863396	SEAL CAP MOUNTING BRKT, S/W LT (PAINTED)	3
20	1863397	SEAL CAP MOUNTING BRKT, S/W RT (PAINTED)	3
21	4522600	HI-LIMIT BRACKET, JAPAN	3
22	4521294	ARM PIVOT BLOCK	6
23	1854902	CAM FOLLOWER W/SHAFT	6
24	1854903	JAM NUT	6
25	4521709	1/2IN CONNECTOR, 90DEG.	3

PARTS ID: WIRING HARNESSES; ALL MODELS

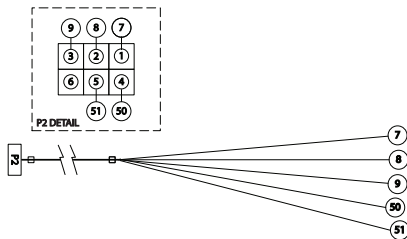
1859803 -
Main Power
Switch
Harness
(Molex Plug
to Terminal
Block)



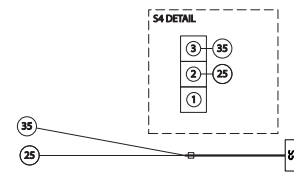
1859833 -
Main Power
Switch
Harness -
Molex Plug to
Switch



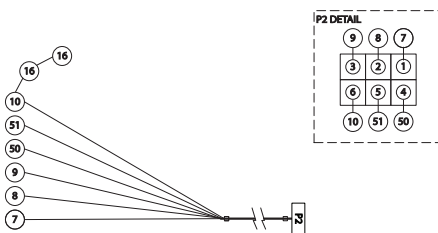
1859807 -
Upper Platen
Harness
(Molex Plug
to upper
platen)



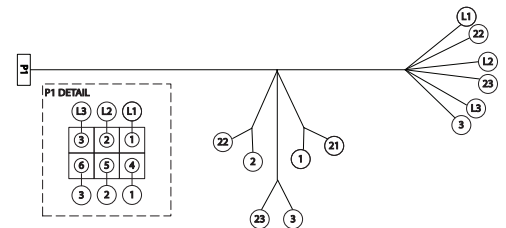
4521950 -
Pushbutton
Harness



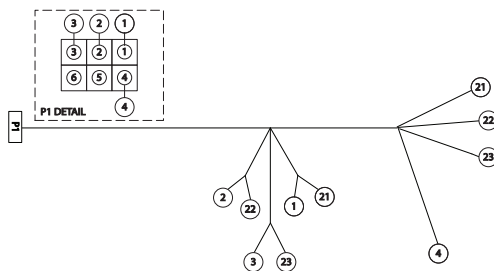
1859814 -
Upper Platen
Harness
(Molex Plug
to upper
platen)



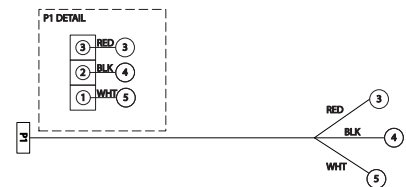
4522630 -
Relay Harness
- Grill Plate
Heater Molex
to SSR's /
Contactor



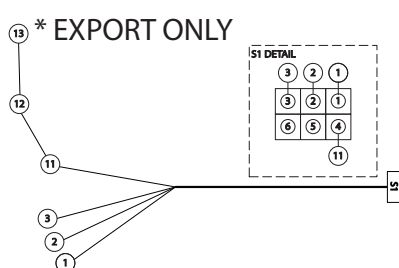
1859808 -
Main Heater
Harness
(Electric
Grills) - Molex
to Grill Plate
Heating
elements



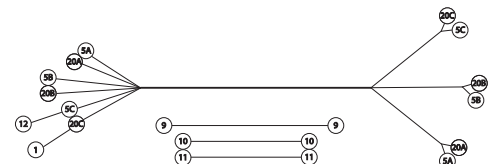
4521767 -
Reed Switch
Harness



1859813 -
Main Heater
Harness
(Electric
Grills) - Molex
to Grill Plate
Heating
elements

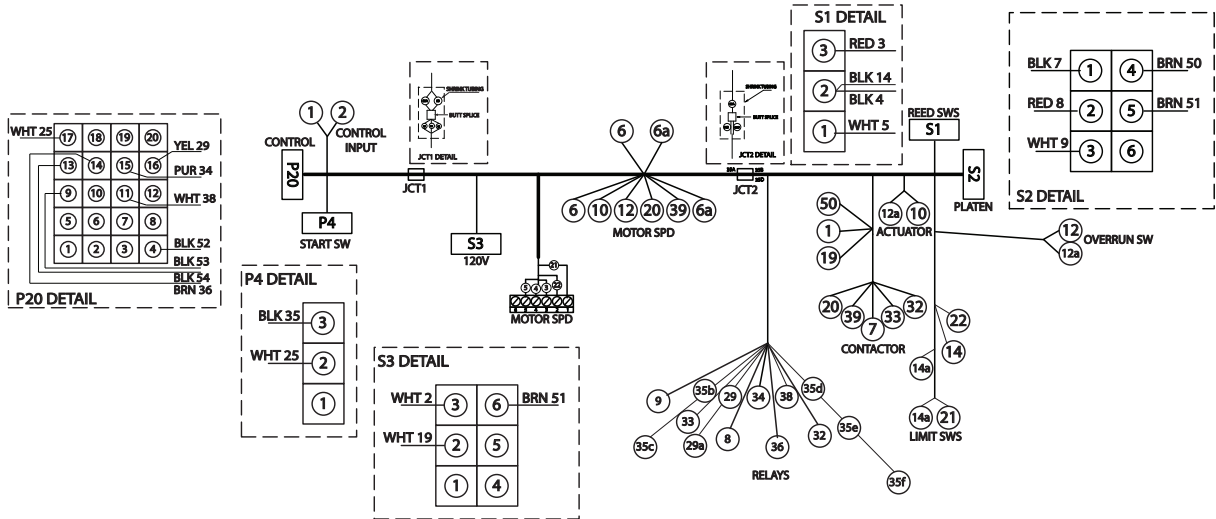


4522078 -
2-Spd Fan
Harness



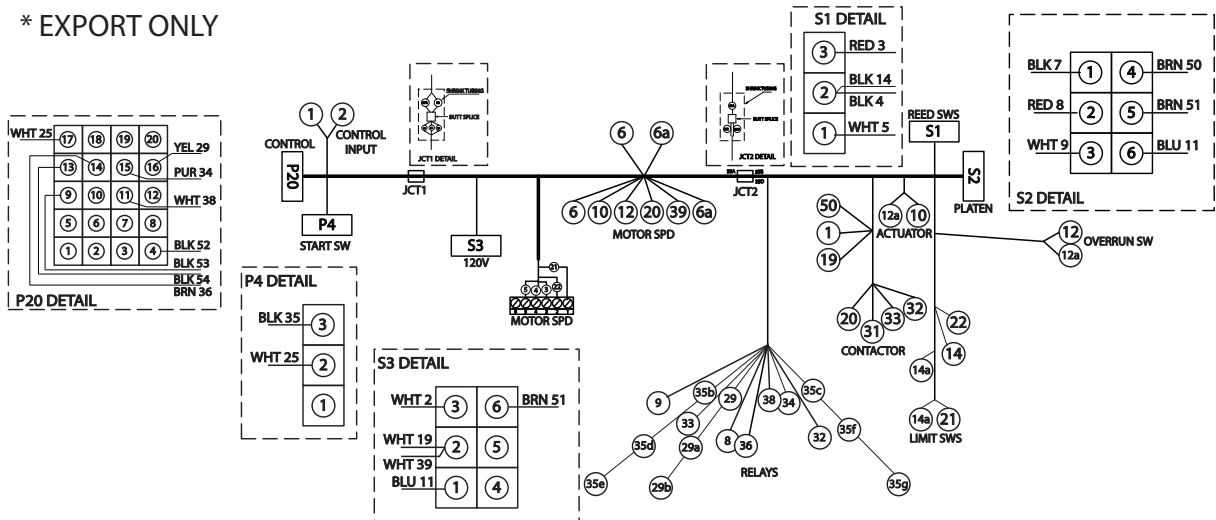
PARTS ID: WIRING HARNESSES; ALL MODELS

4522628 -
Main Harness

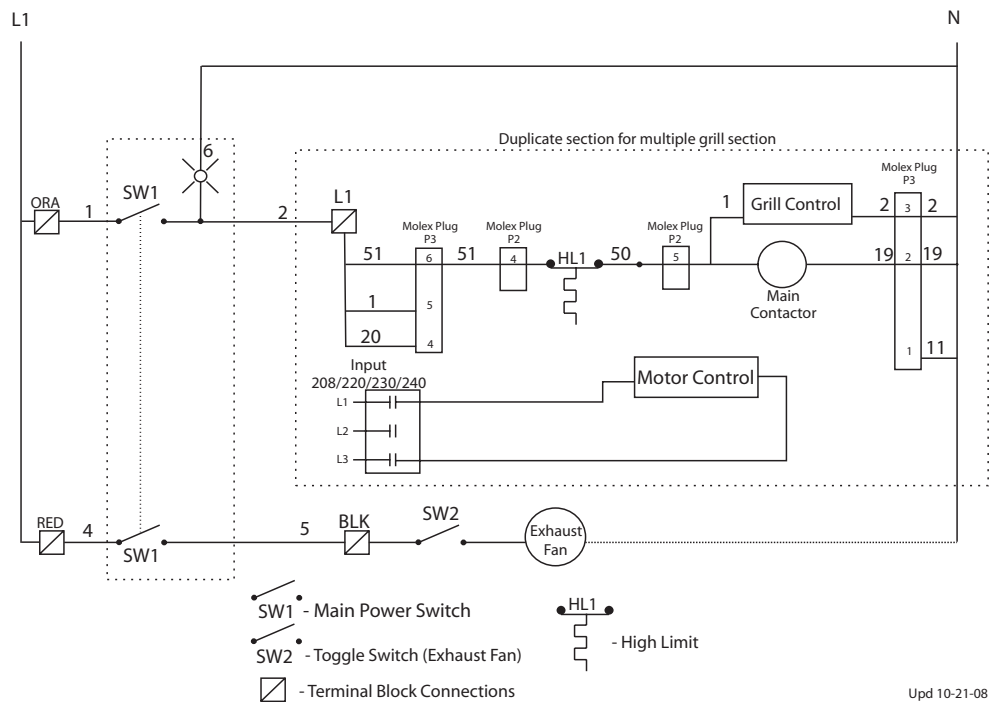


4522629 -
Main Harness
- EXPORT
MODELS

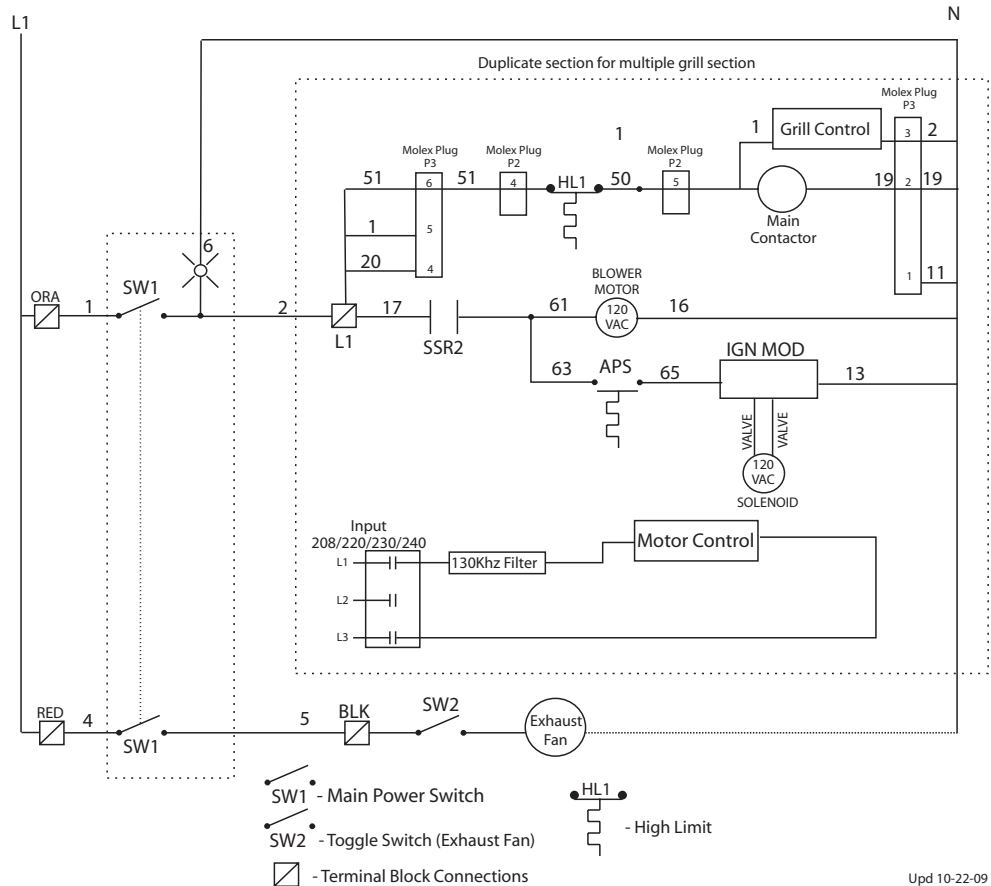
* EXPORT ONLY



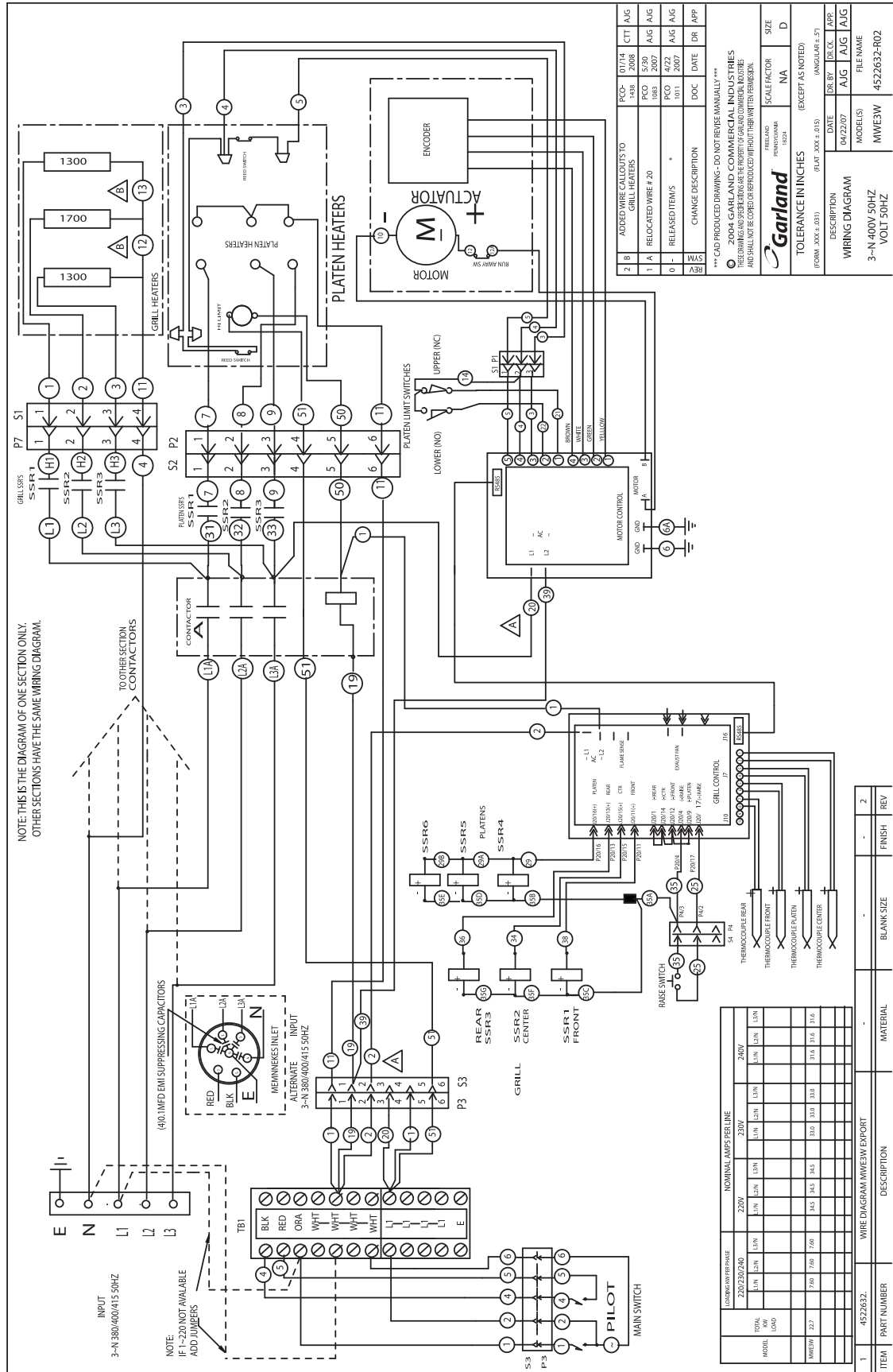
120V CONTROL CIRCUIT; MWE3W

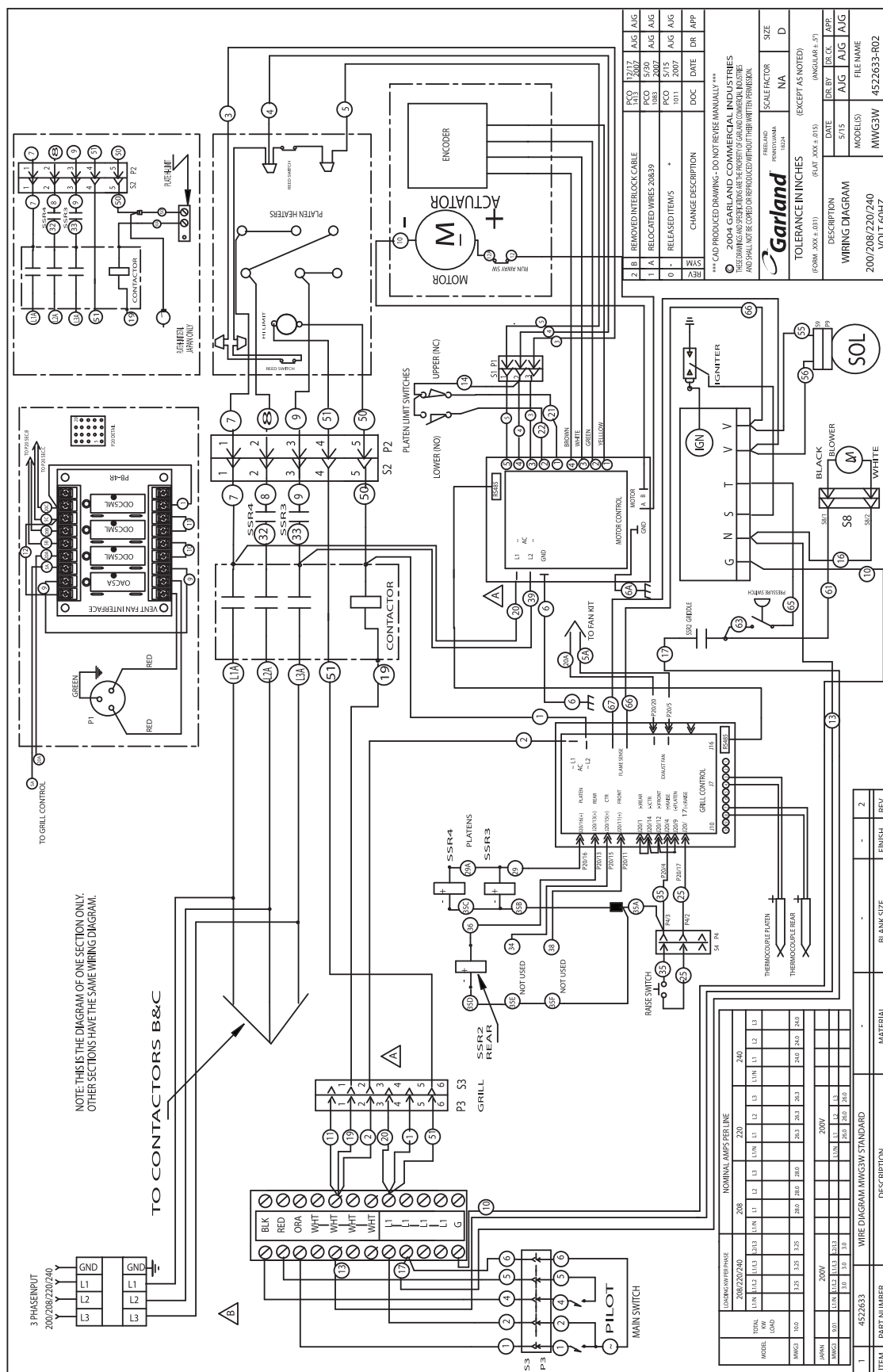


120V CONTROL CIRCUIT; MWG3W



WIRING SCHEMATIC: MWE3W 3~N, 400V, 50HZ





PART #4526396 (03/30/10)



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V

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Z

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Garland Service Manual



Gas & Electric Clamshell Grills With Product Recognition

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PART #4526396 (03/30/10)